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FEB 1 1970

CURRENT SERIAL RECORDS

WATER SUPPLY OUTLOOK FOR UTAH

and

FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

UNITED STATES DEPARTMENT of AGRICULTURE...SOIL CONSERVATION SERVICE,

and

UTAH STATE DEPARTMENT OF NATURAL RESOURCES -- DIVISION OF WATER RIGHTS

In cooperation with U.S. Forest Service, Bureau of Reclamation,
Utah Fish and Game Dept., Utah State University, U.S. National
Park Service, U.S. Geological Survey; and other Federal, State,
and private organizations.

||||| AS OF |||||
FEB. 1, 1970
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TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1400 snow courses in Western United States and in the Columbia Basin in British Columbia. In the near future, it is anticipated that automatic snow water equivalent sensing devices along with radio telemetry will provide a continuous record of snow water equivalent at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, Western Regional Technical Service Center, Room 209, 701 N. W. Glisan, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	P. O. Box "F", Palmer, Alaska 99645
Arizona	6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	12417 Federal Building, Denver, Colorado 80202
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1218 S. W. Washington St., Portland, Oregon 97205
Utah	4012 Federal Building, Salt Lake City, Utah 84111
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 340, Casper, Wyoming 82601

PUBLISHED BY OTHER AGENCIES.

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia



WATER SUPPLY OUTLOOK FOR UTAH

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

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SALT LAKE CITY, UTAH

In Cooperation with

HUBERT C. LAMBERT

STATE ENGINEER
DIVISION OF WATER RIGHTS
UTAH STATE DEPT. OF NATURAL RESOURCES

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SOIL CONSERVATION SERVICE
SNOW SURVEY SECTION
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PROSPECTIVE WATER SUPPLIES

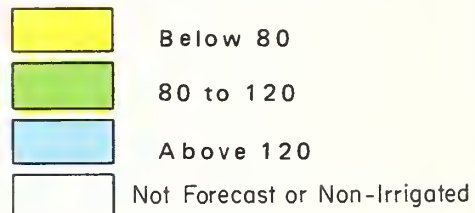
Based on Snow Surveys Made on
UTAH and BEAR RIVER WATERSHEDS

February 1, 1970

Approximate Date



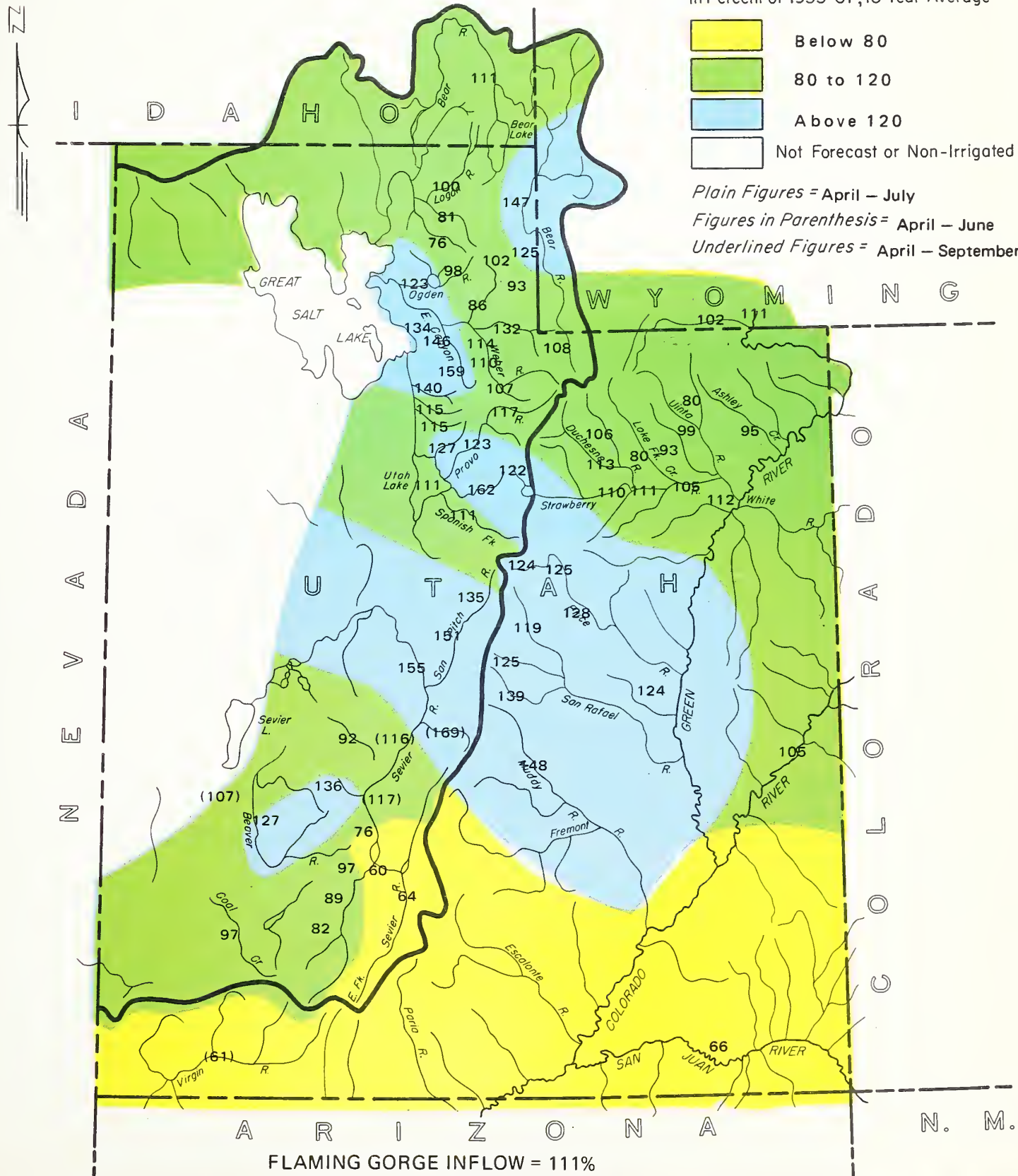
FORECAST STREAM FLOW
in Percent of 1953-67, 15 Year Average



Plain Figures = April - July

Figures in Parenthesis = April - June

Underlined Figures = April - September



FLAMING GORGE INFLOW = 111%
NAVAJO RESERVOIR INFLOW = 65%
LAKE POWELL INFLOW = 108%

WATER SUPPLY OUTLOOK

as of

FEBRUARY 4, 1970

* Utah's 1970 Water Supply Outlook varies from "near" to "above *
* average" except in the southern part of the State where stream- *
* flow forecasts on the East Fork of the Sevier and the Virgin *
* Rivers are "below average" and little or no reservoir storage *
* is available to supplement the low flows expected. Reservoir *
* storage over the rest of the State is average or above average *
* except in Uintah Basin where Moon Lake is below the February 1 *
* average for the 1953-67 period. Snow cover is 80 - 170 percent *
* of average over most of the State except on the head of the *
* Sevier (34%), Virgin 56 percent and in Uintah Basin (70 - 80%). *

NORTHERN UTAH

The Water Supply Outlook for Northern Utah is "good" to "excellent".
January storms improved the snow pack and reservoir storage is above average.

January was an exceptional month with heavy precipitation along the entire Wasatch Front from Spanish Fork to Logan, except for the American Fork River which was slightly below normal. This heavy mountain precipitation increased the streamflow forecasts from below average to above average for the April-July forecast period.

Garden City Summit precipitation was 211 percent and Farmington Canyon 190 percent of average for the month. Parley's Canyon Summit and Mt. Dell were 153 percent and 184 percent respectively. Precipitation on the Provo River ranged from 173 percent at Soapstone Ranger Station to 138 percent at Trial Lake. Snow cover ranges from 108 percent on the Logan River to 142 percent at Farmington Canyon. Snow cover varies from 106 percent on the Ogden to 120 percent at Smith & Morehouse on the Weber River. Big Cottonwood is 126 percent of its 15-year average. Slightly below average are the American Fork River at 77 percent and the Provo at 93 percent.

All reservoirs in the northern section of the State have excellent "carry-over" storages from last year. Bear Lake now holds 1,121,000 A.F., Hyrum 10,500, Pineview 60,300, Deer Creek 90,800, East Canyon 36,900, Echo 49,100 and Utah Lake 844,200 A.F. which is about .4 of a foot below Compromise.

Streamflow forecasts for the April-July forecast period range from a high of 162 percent and 159 percent for Hobbie Creek near Springville and East Canyon to 86 percent of average for Lost Creek near Croydon.

The streamflow forecasts for Big and Little Cottonwood are both 115 percent of average. The Weber River ranges from 107 percent (117,000) near Oakley to 114 percent (125,000 A.F.) near Coalville. Chalk Creek is forecast at 132 percent of average. Utah Lake inflow is forecast at 111 percent (217,000 A.F.) with the Provo set at 118,000 A.F. or 123 percent of normal.

WATER SUPPLY OUTLOOK (continued)

EASTERN UTAH

Water supplies in eastern Utah are expected to be adequate this summer. Uintah Basin snow cover is below average, but streamflow forecasts are near average.

Snowfall during January was below average in Uintah Basin but near average on the upper Duchesne, Strawberry, Price and San Rafael Rivers. Snow cover on the ground now varies from 71 percent on the Lakefork drainage to 116 percent on the upper San Rafael. Uintah and Whiterocks Rivers are 81 percent of the February 1 average and Ashley Creek is about 73 percent. The upper Duchesne is 101 percent and the Strawberry below the Reservoir 89 percent. Price River is 115 percent of average. Snow courses were not measured this month on the LaSal and Blue Mountains of southeastern Utah.

Reservoir storage in Moon Lake is 12,100 acre feet while last year is held 23,300 acre feet on February 1. Its average is 14,200 acre feet for the 1953-67 period for this time of year. The new Starvation Reservoir on the Strawberry River now has 26,400 acre feet of useable storage and will continue to fill as runoff progresses this spring. Scofield Reservoir on the Price River had 49,600 acre feet on February 1. Last year it held 45,200 acre feet and the February 1 average is 20,400 acre feet. Flaming Gorge now has 1,516,000 acre feet. Last year it had 1,785,000 acre feet on February 1.

Streamflow forecasts range from 80 percent of average on the Lakefork and Whiterocks Rivers in Uintah Basin to 148 percent on Muddy Creek near Emery. Ashley Creek is forecast to flow 95 percent of it's April-July average and the Uintah River 99 percent. Rock Creek is expected to flow 106 percent and the Duchesne at Tabiona 113 percent. The Strawberry at Duchesne is forecast to flow 110 percent of it's April-July average and the Duchesne at Duchesne 111 percent. The inflow to Flaming Gorge Reservoir is expected to be 111 percent of average this year. Scofield Reservoir inflow is forecast 125 percent of average and the Price at Heiner 128 percent of average during April-July. Huntington Creek is forecast to flow 119 percent of average, Cottonwood Creek 125 percent and Ferron Creek 139 percent of average. Muddy Creek is forecast to flow 148 percent of it's April-July average.

Water supplies are expected to be adequate to meet most demands in this part of the State.

WATER SUPPLY OUTLOOK (continued)

CENTRAL AND SOUTHERN UTAH

The Water Supply Outlook in Central and Southern Utah ranges 'above average' on the San Pitch, Salina, Lower Sevier, Beaver Rivers and Clear Creek to "well below average" on the Virgin and East Fork of the Sevier, south of Otter Creek.

Snowfall during January was good on the San Pitch, Salina Creek, and Beaver Rivers but snow courses on the head of the Virgin and Sevier had below average increases in water content and some courses actually showed less water content on February 1 than a month earlier. Snow cover on the Virgin is only 56 percent of the February 1 average. The Sevier above Hatch is 34 percent and the East Fork of the Sevier 54 percent. The head of the Escalante River shows 62 percent of average snow cover and Coal Creek above Cedar City only 54 percent. Snow cover on the San Pitch was 125 percent on Fairview Canyon and 128 percent in Ephraim Canyon. Salina Creek courses showed 157 percent of the February 1 average and Clear Creek fell off to 117 percent. Beaver River snow cover is 127 percent of average.

Storage in Otter Creek, Piute, and Sevier Bridge Reservoirs totals 318,900 acre feet (275%) and all three are expected to fill this year. Gunnison Reservoir has 16,800 acre feet in storage and the San Pitch is running a good flow into the Sevier for the second year in a row. Winter flow into Sevier Bridge (October 1 - March 31) is expected to be about 120,000 acre feet this year. This will be the best winter flow in many years. Storage in Minersville Reservoir is about 20,000 acre feet. This is less than last year at this time but better than double the February 1 average.

Streamflow forecasts range from 61 percent of average on the Virgin River near Virgin for the April-June period to 169 percent on Salina Creek for the same period. The Sevier at Hatch is expected to flow 82 percent of average for the April-July period and 97 percent at Kingston. The East Fork Sevier near Kingston is forecast at 60 percent average and Sevier below Piute 76 percent for the April-July period. Kingston to Vermillion Dam is expected to flow 35,000 acre feet or 117 percent of the April-June average for 1953-67. Vermillion Dam to Gunnison flow is forecast at 116 percent of average (52,000 acre feet) for the March-June period. The Sevier at Gunnison is expected to flow 155 percent of the April-July average (48,000 acre feet).

The Beaver River is forecast to flow 127 percent of average during the April-July period and Clear Creek near Sevier 136 percent for the same period. The San Juan near Bluff is forecast at 66 percent of the April-July average and Lake Powell inflow is expected to be 108 percent of the April-July average.

RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average†
	<u>GREAT BASIN</u>				
<u>Bear River</u>	Bear Lake	1421.0	1121.0	1063.2	854.0
	Woodruff Narrows	26.5	18.7	26.5	- -
<u>Beaver River</u>	Minersville (Rky Fd.)	23.3	20.0*	23.3	8.9
<u>Little Bear</u>	Hyrum	15.3	10.5	10.8	10.2
	Porcupine	11.3	2.5	3.5	- -
<u>Ogden</u>	Causey	7.1	1.0	3.0	- -
	Pineview	110.1	60.3	51.0	26.1
<u>Provo</u>	Deer Creek	149.7	90.8	101.7	88.3
<u>Sevier River</u>	Gunnison	18.2	16.8	16.9	- -
	Otter Creek	52.5	52.4	43.5	19.0
	Piute	71.8	63.6	54.8	29.6
	Sevier Bridge	236.0	192.9	105.0	66.2
<u>Spanish Fork</u>	Strawberry	270.0	190.8	150.6	117.6
<u>Utah Lake</u>	Utah Lake	883.9	844.2	802.2	518.9
<u>Weber</u>	East Canyon	48.1	36.9	31.2	- -
	Echo	73.9	49.1	54.8	31.7
	Lost Creek	20.0	13.1	10.7	- -
	Rockport	60.9	22.2	51.4	25.2b
	Willard Bay	193.3	98.7	119.1	- -
	<u>COLORADO RIVER DRAINAGE</u>				
<u>Ashley Creek</u>	Steinaker	33.3	22.1	23.3	15.6b
<u>Colorado</u>	Blue Mesa	829.5	589.7	442.4	- -
	Lake Powell	25002.0	9375.0	7150.0	5161.7b
<u>Green</u>	Flaming Gorge	3749.0	1516.0	1785.0	1299.0b
<u>Lake Fork</u>	Moon Lake	35.8	12.1	23.3	14.2
<u>Price River</u>	Scofield	65.8	49.6	45.2	20.4
<u>San Rafael</u>	Joe's Valley	54.6	42.5	27.2	- -
<u>San Juan</u>	Navajo	1696.4	1012.3	794.2	284.0b
<u>Strawberry</u>	Starvation	165.3	26.4	- -	- -

STREAMFLOW FORECASTS

STREAMFLOW FORECASTS	THIS YEAR			PAST RECORD	
BASIN STREAM and/or FORECAST POINT	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
BEAR RIVER SYSTEM					
Bear at Hamer, Idaho	250	111	Apr-Sept	319	226
Bear nr Randolph	107	147	Apr-July	125	73
Bear nr Ut-Wyo State Line	115	108	Apr-July	111	106
Bear nr Woodruff	130	125	Apr-July	125	104
Big Crk nr Randolph, Utah	4.9	102	Apr-July	5.3	4.8
Blacksmith Fork nr Hyrum	34	81	Apr-July	51	42
Little Bear nr Paradise	32	76	Apr-June	43	42
Logan nr Logan (1)	99	100	Apr-July	111	99
Smith's Fork nr Border, Wyoming	136	126	Apr-Sept	115	108
Woodruff Crk nr Woodruff, Utah	12.5	93	Apr-July	21	13.5
WEBER-OGDEN RIVERS					
Chalk Crk at Coalville	37	132	Apr-July	46	28
East Canyon Crk nr Morgan (2)	29	159	Apr-July	38	18.2
Hardscrabble Crk nr Porterville	21	146	Apr-July	22	14.4
Lost Crk nr. Croydon, Utah	10.6	86	Apr-July	25	12.3
Pineview Reservoir Inflow (3)	116	123	Apr-July	155	94
South Fork Ogden nr Huntsville	48	98	Apr-July	76	49
Rockport Reservoir Inflow (4)	124	110	Apr-July	153	113
Weber nr Coalville (5)	125	114	Apr-July	173	110
Weber nr Oakley	117	107	Apr-July	146	109
PROVO RIVER & UTAH LAKE					
American Fork nr American Fork	33	127	Apr-July	60	26
Hobble Crk nr Springville	21	162	Apr-July	37	13.0
Provo nr Hailstone (6)	102	117	Apr-July	129	87
Provo below Deer Crk Dam (7)	118	123	Apr-July	165	96
Spanish Fork at Thistle	30	111	Apr-July	67	31
Strawberry Reservoir Inflow (8)	50	122	Apr-July	80	41
Utah Lake Inflow	217	111	Apr-July	263	195
JORDAN RIVER & SALT LAKE					
Big Cottonwood nr SLC	39	115	Apr-July	44	34
Farmington Crk nr Farmington	9.1	134	Apr-July	10.8	6.8
Little Cottonwood Crk nr SLC	38	115	Apr-July	51	33
Parley's Crk nr SLC	13.2	140	Apr-July	17.7	9.4
FOOTNOTES - See last page					

STREAMFLOW FORECASTS

STREAMFLOW FORECASTS	THIS YEAR			PAST RECORD	
BASIN STREAM and/or FORECAST POINT	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
<u>SEVIER RIVER</u>					
Chalk Creek nr Fillmore	12.2	92	Apr-July	17.7	13.2
Clear Crk nr Sevier (Above Div.)	16.9	136	Apr-July	- -	12.5b
East Fork Sevier nr Kingston (9)	7.0	60	Apr-July	33	11.7
Antimony Crk nr Antimony	5.0	64	Apr-July	5.1	7.8b
Inflow					
Kingston to Vermillion Dam	35	117	Apr-June	50	30 b
Vermillion Dam to Gunnison	52	116	Mar-June	57	45 b
Salina Crk at Salina (10)	10	169	Apr-June	- -	5.9*
Sevier nr Circleville	24	89	Apr-July	93	27
Sevier nr Gunnison	48	155	Apr-July	109	31 b
Sevier at Hatch	27	82	Apr-July	107	33
Sevier nr Kingston	15	97	Apr-July	80	15.4
Sevier below Piute Dam (11)	22	76	Apr-July	118	29
<u>SAN PITCH RIVER</u>					
Ephraim Creek nr Ephraim	21	151	Apr-July	- -	13.9b
Pleasant Crk nr Mt. Pleasant	10.5	135	Apr-July	10	7.8b
<u>BEAVER RIVER</u>					
Beaver nr Beaver	24	127	Apr-July	36	18.9
Rockyford Reservoir Inflow (12)	5	107	Apr-June	- -	4.7
<u>COAL CREEK</u>					
Coal Crk nr Cedar City	13.4	97	Apr-July	37	13.8
<u>COLORADO RIVER BASIN</u>					
Green River Tributaries In Utah					
<u>FLAMING GORGE TO DUCHESNE RIVER</u>					
Ashley Creek nr Vernal	42	95	Apr-July	58	44
Henry's Fork at Linwood	39	102	Apr-Sept	- -	38
FOOTNOTES - See last page					

STREAMFLOW FORECASTS

STREAMFLOW FORECASTS	THIS YEAR			PAST RECORD	
BASIN STREAM and/or FORECAST POINT	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
<u>DUCHESNE RIVER</u>					
Duchesne nr Tabiona (13)	106	113	Apr-July	138	94
Duchesne at Duchesne (13)	185	111	Apr-July	- -	167
Duchesne at Myton (16)	255	105	Apr-July	- -	243
Duchesne at Randlett (16)	294	112	Apr-July	- -	262
Strawberry at Duchesne	54	110	Apr-July	101	49
Rock Crk nr Mtn. Home	93	106	Apr-July	107	88
Lakefork below Moon Lake (14)	53	80	Apr-July	- -	66
Yellowstone nr Altonah	55	93	Apr-July	83	59
Uinta nr Neola	78	99	Apr-July	114	79
Whiterocks nr Whiterock	41	80	Apr-July	73	51
<u>PRICE RIVER</u>					
Gooseberry Crk nr Scofield	12.4	124	Apr-July	16.9	10.0
Price nr Heiner (15)	69	128	Apr-July	123	54
Scofield Reservoir INflow (15)	40	125	Apr-July	60	32
<u>SAN RAFAEL RIVER</u>					
Cottonwood Crk nr Orangeville	55	125	Apr-July	60	44
Ferron Crk nr Ferron	46	139	Apr-July	51	33
Huntington Crk nr Huntington	50	119	Apr-July	- -	42
<u>MUDDY RIVER</u>					
Muddy Creek nr Emery	24	148	Apr-July	27	16.2b
<u>VIRGIN RIVER</u>					
Virgin nr Virgin	24	61	Apr-June	138	38
<u>UPPER COLORADO BASIN</u>					
Colorado nr Cisco, Utah (15)	2948	105	Apr-July	3359	2802
Flaming Gorge Inflow (3)	1168	111	Apr-July	1273	1054
Lake Powell Inflow (3)	7018	108	Apr-July	8162	6527
Green at Green River, Utah (15)	3194	124	Apr-July	3404	2574
San Juan nr Bluff, Utah (15)	585	66	Apr-July	1373	890
Navajo Reservoir Inflow	400	65	Apr-July	897	619

FOOTNOTES - See last page

PEAK FLOWS (MAXIMUM MEAN DAILY) (Av. flow for 24 hrs. on day of greatest flow)

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average †
<u>NORTHERN UTAH</u>		
Big Creek near Randolph	20 - 60	43
Big Cottonwood Creek near SLC	350 - 450	310
Hobble Creek near Springville	124 - 388	180
Spanish Fork near Thistle	150 - 650	307
So. Fork Ogden River nr Huntsville	500 - 725	643
<u>EASTERN UTAH</u>		
Ferron Creek near Ferron	300 - 585	414
Muddy Creek near Emery	175 - 303	142
Strawberry River at Duchesne	300 - 1330	558
<u>SOUTHERN and CENTRAL UTAH</u>		
Beaver River near Beaver	170 - 435	215
Clear Creek near Sevier	185 - 225	156b
Coal Creek near Cedar City	175 - 450	217
Salina Creek near Salina	200 - 300	133*
Sevier River at Hatch	115 - 350	370
Sevier River at Circleville	190 - 400	292
Sevier River at Kingston	200 - 300	223
Virgin River at Virgin	450 - 940	557
*Highly abnormal weather during the critical melting period may cause the peak to be outside the indicated range.		

FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
Clear Creek nr Sevier (above Div.)	5	July 25	July 19
Salina Creek at Salina	25	June 15	June 10
Sevier at Circleville (Circle Valley)	90	June 3	June 24
Sevier at Hatch (upper	100	June 12	July 10

PRIMARY WATER RIGHT FORECASTS (PERCENT OF WATER RIGHT DELIVERED)

RIVER SECTION	Percent Forecast For This Year	Average Percent Delivered During 15 year Period†	Forecast Period
<u>Sevier River</u>			
Below Vermillion Dam	60	58	Apr-Sept
Circle Valley	63	66	Apr-Sept
Panguitch Valley	85	84	Apr-Sept
Sevier Valley	47	40	Apr-Sept

OTHER SPECIAL FORECASTS

Below Vermillion - Flow above 360 second feet - 4000 - 5000 acre ft.

Inflow to Sevier Bridge reservoir from October 1 to March 31, is expected to be about 120,000 - 130,000 acre feet.

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF:	
		Last Year	Average
<u>BEAR RIVER</u>			
Bear River So. of Evanston, Wyo.	2	69	108
Blacksmith Fork - Little Bear River	4	77	105
Cub River (Idaho)	1	95	103
Emigration Creek (Idaho)	2	101	140
Logan River	5	96	108
Malad River	2	106	148
Smith's Fork of Bear River (Wyo)	5	87	112
Strawberry-Mink Creeks	3	96	121
<u>WEBER-OGDEN RIVERS</u>			
Chalk Creek above Coalville	2	83	117
East Canyon Creek	2	85	123
Farmington Creek	2	90	142
Ogden River	5	76	106
Weber River above Coalville	6	76	120
<u>UTAH LAKE, JORDAN RIVER & TOOELE VALLEY</u>			
American Fork River	2	40	77
Hobble Creek		Not Measured	
Mt. Nebo Area	2	91	128
Provo River above Deer Creek Dam	5	53	93
Salt Lake Area	3	87	126
Spanish Fork River	4	78	118
Strawberry Reservoir Valley	3	56	109
Tooele Area	1	67	118
<u>SEVIER RIVER</u>			
Beaver River	3	74	127
Chalk Creek near Fillmore	1	123	138
Chicken Creek near Levan		Not Measured	
Clear Creek above Sevier	1	84	117
East Fork Sevier River	4	44	54
Ephraim Creek	2	91	128
Manti Creek		Not Measured	
Mt. Pleasant Area	2	62	125
Salina Creek	2	124	157
Sevier River above Panguitch	3	15	34
Twelve Mile Creek near Mayfield		Not Measured	

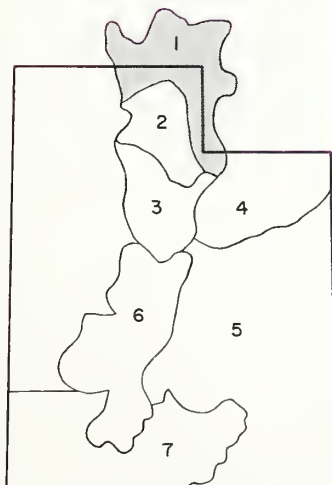
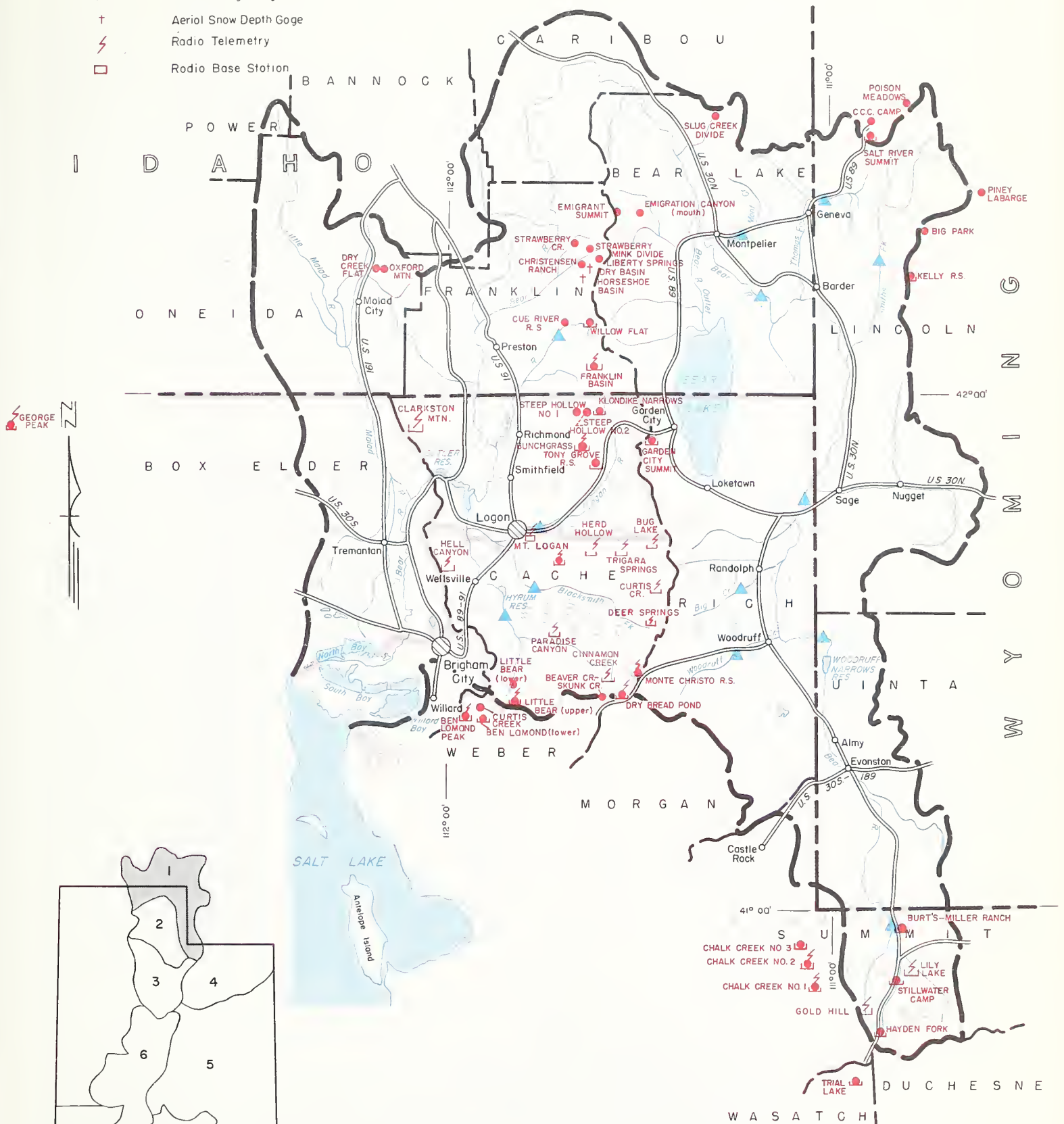
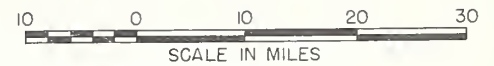
SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF:	
		Last Year	Average
<u>UINTAH BASIN & NORTH SLOPE UINTAH MOUNTAINS</u>			
Ashley-Brush Creeks	2	50	73
Black's Fork & Smith's Fork Rivers		Not Measured	
Duchesne River above Tabiona	3	60	101
Henry's Fork River & Sheep Creek		Not Measured	
Lakefork River	2	47	71
Strawberry River	3	48	89
Uintah-Whiterocks Rivers	3	54	81
<u>CARBON, EMERY, WAYNE, GRAND & SAN JUAN COUNTIES</u>			
Blue Mountains near Monticello		Not Measured	
Fremont River	1	136	167
LaSal Mountains near Moab		Not Measured	
Muddy River		Not Measured	
Price River	5	60	115
San Rafael River	2	62	116
<u>EAST GARFIELD, KANE, WASHINGTON & IRON COUNTIES</u>			
Coal Creek near Cedar City	3	26	54
Escalante River	3	53	62
New Harmony to Newcastle		Not Measured	
Paria River		Not Measured	
Parowan Creek	1	27	49
Virgin River	4	18	56

LEGEND

- Watershed Boundary
- Soil Conservation District Bdry.
- County Boundary
- ▲ Forecast Point
- Snow Course
- ┌ S.C.S. Storage Gage
- └ W.B. Storage Gage
- + Aerial Snow Depth Gage
- ⚡ Radio Telemetry
- Radio Base Station

BEAR RIVER BASIN



WATERSHED LOCATION

INDEX

NO.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
UPPER BEAR RIVER (above Harer, Idaho)						
10G11	W	Big Park	7	27N	117W	8,700
10J6	U	Burts-Miller Ranch	19	3N	10E	7,900
10G7	W	CCC Camp x	9	29N	118W	7,500
10J36p	U	Gold Hill	11	1N	9E	10,000
10J7	U	Hayden Fork	25	1N	9E	9,400
10G12	W	Kelly Ranger Station	13	26N	118W	8,200
10J35p	U	Lily Lake	34	2N	10E	9,300
11H12P	U	Monte Cristo R.S.	4	8N	4E	8,960
10G10	W	Piney LaBarge x	19	29N	114W	8,820
10G6	W	Poison Meadows x	29	30N	116W	8,500
10G8P	W	Salt River Summit x	32	29N	118W	7,900
10J17P	U	Stillwater Camp	32	2N	10E	8,550

LOWER BEAR RIVER (below Harer, Idaho)						
11H14M	U	Beaver Creek-Skunk Creek x	22	8N	3E	7,150
11H37p	U	Bug Lake	18	11N	5E	7,950
11H36p	U	Bunchgrass	5	13N	3E	8,400
11G11	I	Christensen Ranch	27	13S	41E	5,600
11H38p	U	Cinnamon Creek	5	8N	3E	7,300
12H1p	U	Clarkston Mtn.	29	14N	2W	6,300
11G12	I	Cub River Ranger Station	5	15S	41E	5,400
11H33	U	Curtis Creek	12	10N	4E	8,450
11H39p	U	Deer Springs	34	10N	4E	8,400
11G14a	I	Dry Basin	30	13S	42E	7,900
11H13MP	U	Dry Bread Pond x	19	8N	4E	8,230
12G4	I	Dry Creek Flat	31	13S	37E	6,350
11G6	I	Emigrant Summit	21	12S	42E	7,350
11G7	I	Emigration Canyon (mouth)	24	12S	42E	6,500
11G8M	I	Franklin Basin	1	16S	41E	8,000
11H7MP	U	Garden City Summit	34&35	14N	4E	7,600
12H2p	U	Hell Canyon	24	11N	2W	6,400
11H40p	U	Herd Hollow	4	11N	3E	7,000
11G15a	I	Horseshoe Basin	31	13S	42E	8,000
11H1MP	U	Klondike Narrows	10	14N	3E	7,400
11G13	I	Liberty Springs	7	13S	42E	8,420
11H26	U	Little Bear (lower)	15	8N	1E	6,000
11H25P	U	Little Bear (upper)	22	8N	1E	6,550
11H6	U	Mt. Logan	3	11N	2E	9,000
12G3	I	Oxford Mountain	32	13S	37E	6,800
11H46p	U	Paradise Canyon	36	10N	2E	7,650
11G5	I	Slug Creek Divide	15	10S	44E	7,225
11H27	U	Steep Hollow #1	7	14N	3E	8,500
11H28	U	Steep Hollow #2	9	14N	3E	7,700
11G9	I	Strawberry Creek	9	13S	41E	5,800
11G10	I	Strawberry Mink Divide	14	13S	41E	6,800
11H3M	U	Tony Grove Ranger Station	11	13N	3E	6,250
11H41p	U	Trigara Springs	29	12N	4E	7,600
11G4P	I	Willow Flat	2	15S	41E	6,100

LEGEND

Numbering system (example)

10J7	SNOW COURSE ONLY
10J7P	SNOW COURSE AND PRECIPITATION GAGE
10J7M	SNOW COURSE AND SOIL MOISTURE STATION
10J7A	SNOW COURSE AND AERIAL MARKER
10J7MA	SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER
10J7MP	SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE
10J7m	SOIL MOISTURE STATION ONLY
10J7a	AERIAL MARKER ONLY
10J7p	STORAGE PRECIPITATION GAGE ONLY
x	ADJACENT DRAINAGE

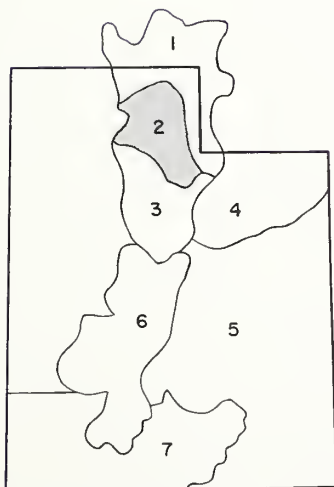
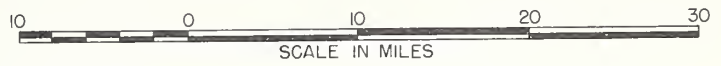
FOOTNOTES - See last page

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. OCT. 1 TO DATE		
		Date of Reading	Month's Precipitation	Average +	This Year	Average +	Percent of Average
<u>BEAR RIVER</u>							
Chalk Creek #2 x	7900	1/31	2.88	3.02b	- -	8.80*	- -
Chalk Creek #3 x	7500	1/28	- -	1.82b	9.81	8.37b	117
Dry Bread Pond	8230	Delayed		4.47*	- -	11.75*	- -
Garden City Summit	7600	1/27	6.80	3.22b	13.81	11.52*	120
Klondike Narrows	7400	1/31	5.10	5.24*	- -	14.15*	- -
Monte Cristo #2	8960	1/29	- -	4.94b	18.32	14.74b	124
Sagebrush Flat x	6300	1/29	- -	2.48b	9.91	8.28b	120
Salt River Summit	7900	1/29	6.30	3.51b	11.15	9.47*	116
Tony Grove R.S. (SCS)	6250	Delayed		2.40b	- -	13.70b	- -
Trial Lake x	9800	1/30	6.16	4.47b	16.35	12.89*	127
Willow Flat	6100	1/29	- -	4.72	17.85	12.80	139

FOOTNOTES - See last page

FOOTNOTES - See last page

WEBER - OGDEN WATERSHEDS



WATERSHED LOCATION

LEGEND

- Watershed Boundary
- Soil Conservation District Bdry.
- County Boundary
- Forecast Point
- Snow Course
- S.C.S. Storage Gage
- W.B. Storage Gage
- Radio Telemetry

INDEX

NO.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
OGDEN RIVER						
11H14M	U	Beaver Creek-Skunk Creek	22	8N	3E	7,150
11H8	U	Ben Lomond Peak	3	7N	1W	8,000
11H9P	U	Ben Lomond (lower)	1	7N	1W	6,000
11H30P	U	Ben Lomond Trail	2	7N	1W	6,000
11H35p	U	Causey Dam	34	7N	3E	5,500
11H29	U	Cutler Creek	3	7N	1W	6,780
11H13MP	U	Dry Bread Pond	19	8N	4E	8,230
11H34p	U	Guilder's Peak	21	6N	4E	8,050
11H42p	U	Magpie	29	6N	3E	7,700
11H45p	U	Middle Fork Ogden	16	7N	2E	8,420
11H12P	U	Monte Cristo R.S. x	4	8N	4E	8,960
11H15P	U	Sagebrush Flat	21	7N	3E	6,300

WEBER RIVER						
11J24	U	Beaver Creek R.S.	28	2S	7E	7,500
11J1	U	Chalk Creek #1	4	1N	8E	9,100
11J2MP	U	Chalk Creek #2	17 & 20	2N	8E	7,900
11J3M	U	Chalk Creek #3	7	2N	8E	7,500
11J12P	U	Farmington Canyon (lower) x	14	3N	1E	6,950
11J11	U	Farmington Canyon (upper) x	26	3N	1E	8,000
11H44p	U	Francis Canyon	29	5N	6E	7,400
11J37p	U	Hardscrabble	16	2N	2E	6,500
11H43p	U	Hoodoo Knoll	22	5N	3E	8,350
11H21P	U	Horse Ridge	1	6N	4E	8,260
11H31P	U	Kilfore Creek	20	6N	5E	7,300
11J14	U	Lamb's Canyon x	19	1S	3E	6,600
11H32P	U	Lost Creek	27	6N	5E	6,125
11J15P	U	Parley's Canyon Summit	5	1S	3E	7,500
11J38p	U	Porcupine	22	3N	7E	8,100
11J6	U	Reddon Mine (lower)	1	2S	6E	8,500
11J5	U	Reddon Mine (upper)	1	2S	6E	9,000
11J39p	U	Sergeant Lakes	17	1N	5E	8,400
11J40p	U	Shingle Mill Flat	15	1S	7E	9,900
11J16P	U	Silver Lake (Brighton) x	35	2S	3E	8,725
11J4P	U	Smith & Morehouse	25	1N	7E	7,600
10J8P	U	Trial Lake x	5	2S	9E	9,800

LEGEND

Numbering system (example)

10J7	SNOW COURSE ONLY
10J7P	SNOW COURSE AND PRECIPITATION GAGE
10J7M	SNOW COURSE AND SOIL MOISTURE STATION
10J7A	SNOW COURSE AND AERIAL MARKER
10J7MA	SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER
10J7MP	SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE
10J7m	SOIL MOISTURE STATION ONLY
10J7a	AERIAL MARKER ONLY
10J7p	STORAGE PRECIPITATION GAGE ONLY
x	ADJACENT DRAINAGE

WEBER-OGDEN WATERSHEDS

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
					Last Year	Average †
<u>OGDEN RIVER</u>						
Beaver Crk.-Skunk Crk.	7150	1/29	31	7.0	12.8	7.2
Ben Lomond (lower)	6000	1/28	29	9.9	11.7	8.7b
Ben Lomond Peak	8000	1/28	77	24.0	29.6	20.1b
Ben Lomond Trail	6000	1/28	32	10.8	14.2	9.1b
Cutler Creek	6780	1/28	52	16.4	26.6	15.6b
Dry Bread Pond	8230	1/29	45	11.3	16.8	10.3
Monte Cristo R. S.	8960	1/29	60	15.2	18.1	16.0b
Sagebrush Flat	6300	1/29	13	3.9	4.2	3.6
<u>WEBER RIVER</u>						
Beaver Creek R. S.	7500	1/30	24	5.5	9.8	5.2b
Chalk Creek #2	7900	1/28	43	9.7	11.7	8.4b
Chalk Creek #3	7500	1/28	26	5.5	6.6	4.6b
Farmington Canyon (l) x	6950	1/30	49	16.1	17.5	12.0b
Farmington Canyon (u) x	8000	1/30	73	22.3	25.4	15.0b
Lamb's Canyon x	6600	1/30	43	12.9	15.4	8.6
Parley's Canyon Smt.	7500	1/30	54	14.2	17.2	10.5
Silver Lake (Brighton) x	8725	1/29	55	16.8	19.4	14.7
Smith & Morehouse	7600	1/29	32	8.0	11.4	7.4b
Soapstone R. S. x	7800	1/30	39	8.8	11.4	7.7b
Trial Lake x	9800	1/30	65	16.0	23.5	14.8b
Horse Ridge	8260	1/29	64	15.6	--	--
Kilfore Creek	7300	1/29	44	8.8	--	--

FOOTNOTES - See last page

PRECIPITATION (Inches)

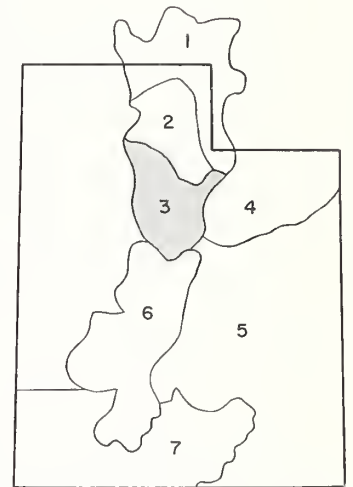
DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. OCT 1 TO DATE		
		Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
<u>ODGEN RIVER</u>							
Ben Lomond (lower)	6000	2/2	7.40	4.39b	15.30	15.46*	99
Ben Lomond Trail	6000	2/2	11.83	4.41b	20.11	17.07*	118
Causey Dam	5500	1/29	--	1.92b	10.42	- -	--
Dry Bread Pond	8230	Delayed		4.47*	--	11.75*	--
Monte Cristo #2 x	8960	1/29	--	4.94b	18.32	14.74b	124
Sagebrush Flat	6300	1/29	--	2.48b	9.91	8.28b	120
<u>WEBER RIVER</u>							
Chalk Creek #2	7900	1/31	2.88	3.02b	--	8.80*	--
Chalk Creek #3	7500	1/28	--	1.82b	9.81	8.37b	117
Farmington Guard Sta.	7500	1/30	8.91	4.69	21.66	17.04	127
Farmington Rice	7000	1/30	8.43	4.38	19.68	15.35	128
Parley's Canyon Smt.	7500	1/30	6.02	3.94*	16.16	11.64*	139
Silver Lake (Brighton) x	8725	1/31	7.05	5.09	17.97	16.56	108
Smith & Morehouse	7600	1/29	4.35	3.19b	12.01	9.79	123
Trial Lake x	9800	1/30	6.16	4.47b	16.35	12.89*	127
Horse Ridge	8260	1/29	--	--	15.49	--	--
Lost Creek	6125	1/29	--	--	6.72	--	--
FOOTNOTES - See last page							

UTAH LAKE, JORDAN RIVER AND TOOEELE VALLEY WATERSHEDS

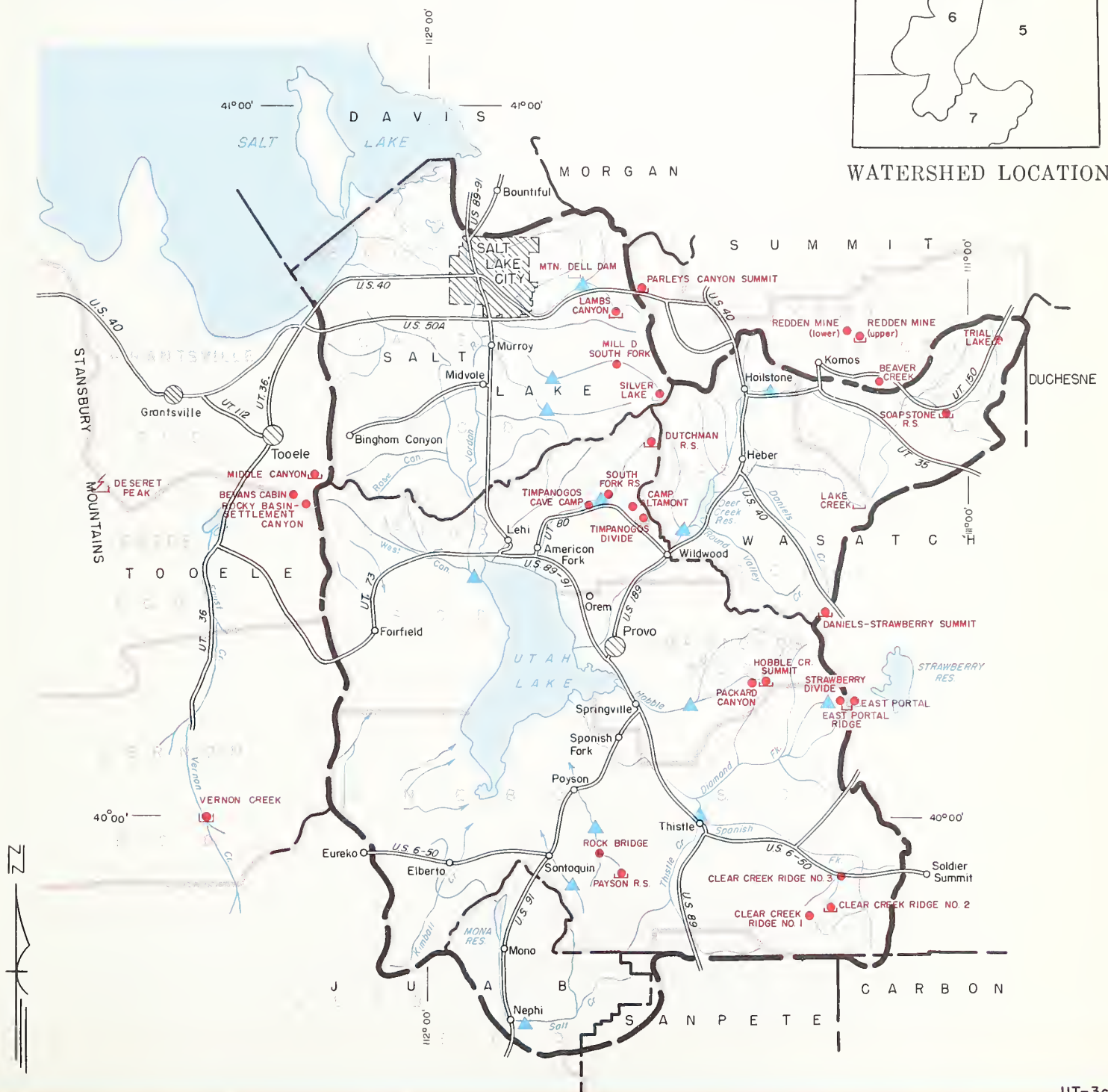


LEGEND

- Watershed Boundary
- Soil Conservation District Bdry.
- County Boundary
- ▲ Forecast Point
- Snow Course
- ┌ S.C.S. Storage Gage
- └ W.B. Storage Gage



WATERSHED LOCATION



INDEX

NO.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
PROVO RIVER & UTAH LAKE						
11J20	U	Camp Altamont	29	4S	3E	7,300
11K21	U	Clear Creek Ridge #1	18	11S	6E	9,200
11K22P	U	Clear Creek Ridge #2	9	11S	6E	8,000
11K23	U	Clear Creek Ridge #3	27	10S	6E	6,600
11J23MP	U	Daniels-Strawberry Summit	20	2S	12W	8,000
11J17P	U	Dutchman R.S.	27	3S	3E	7,560
11J7P	U	East Portal	36	7S	6E	7,560
11J22P	U	Hobble Creek Summit	27	7S	5E	7,420
11J36P	U	Lake Creek	36	4S	6E	9,100
11J31	U	Packard Canyon	21	7S	5E	6,400
11K1P	U	Payson R.S.	30	10S	3E	8,050
11K2	U	Rock Bridge	14	10S	2E	6,750
11J25P	U	Soapstone R.S.	9	3S	8E	7,800
11J19	U	South Fork R.S.	24	4S	2E	6,100
11J8	U	Strawberry Divide	34 & 35	7S	6E	8,000
11J18	U	Timpanogos Cave Camp	27	4S	2E	5,500
11J21P	U	Timpanogos Divide	33	4S	3E	8,140
10J8P	U	Trial Lake	5	2S	9E	9,800

JORDAN RIVER & GREAT SALT LAKE

12J2	U	Bevan's Cabin	24	4S	4W	6,450
12J5p	U	Deseret Peak	15	4S	7W	9,250
11J12P	U	Farmington Canyon (lower)	14	3N	1E	6,950
11J11	U	Farmington Canyon (upper)	26	3N	1E	8,000
11J41P	U	Lamb's Canyon #2	21	1S	3E	7,400
12J3P	U	Middle Canyon	8	4S	3W	7,000
11J10	U	Mill D South Fork	18	2S	3E	7,400
11J15P	U	Parley's Canyon Summit x	5	1S	3E	7,500
12J1	U	Rocky Basin-Settlement Canyon	30	4S	3W	8,900
11J16P	U	Silver Lake (Brighton)	35	2S	3E	8,725
12K2P	U	Vernon Creek	21	10S	5W	7,500

LEGEND

Numbering system (example)

10J7	SNOW COURSE ONLY
10J7P	SNOW COURSE AND PRECIPITATION GAGE
10J7M	SNOW COURSE AND SOIL MOISTURE STATION
10J7A	SNOW COURSE AND AERIAL MARKER
10J7MA	SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER
10J7MP	SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE
10J7m	SOIL MOISTURE STATION ONLY
10J7a	AERIAL MARKER ONLY
10J7p	STORAGE PRECIPITATION GAGE ONLY
x	ADJACENT DRAINAGE

SNOW		THIS YEAR			PAST RECORD	
DRAINAGE BASIN and/or SNOW COURSE		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average †
<u>UTAH LAKE</u>						
Beaver Creek R. S. x	7500	1/30	24	5.5	9.8	5.2b
Camp Altamont	7300	1/28	27	8.0	19.3	9.7
Clear Creek Ridge #2	8000	1/27	32	8.3	13.3	7.9b
Clear Creek Ridge #3	6600	1/27	18	5.0	7.6	4.7b
Daniels-Strawberry Smt.	8000	1/29	29	6.9	17.6	8.9
East Portal	7560	1/30	27	7.3	13.0	6.1
Payson R. S.	8050	1/30	42	13.5	15.4	9.7b
Rock Bridge	6750	1/30	25	7.6	7.7	6.8b
Soapstone R.S.	7800	1/30	39	8.8	11.4	7.7b
South Fork R.S.	6100	1/28	12	2.8	3.6	4.7
Strawberry Divide	8000	1/30	51	13.6	19.0	10.6
Timpanogos Cave Camp	5500	1/28	3	0.3	1.2	1.8
Timpanogos Divide	8140	1/28	41	11.4	28.6	15.4
Trial Lake	9800	1/30	65	16.0	23.5	14.8b
<u>JORDAN RIVER</u>						
Lamb's Canyon	6600	1/30	43	12.9	15.4	8.6
Middle Canyon x	7000	1/30	23	8.0	12.0	6.8b
Mill D. South Fork	7400	1/29	57	15.0	16.3	11.3
Parley's Canyon Summit	7500	1/30	54	14.2	17.2	10.5
Silver Lake	8725	1/29	55	16.8	19.4	14.7
FOOTNOTES - See last page						

FOOTNOTES - See last page

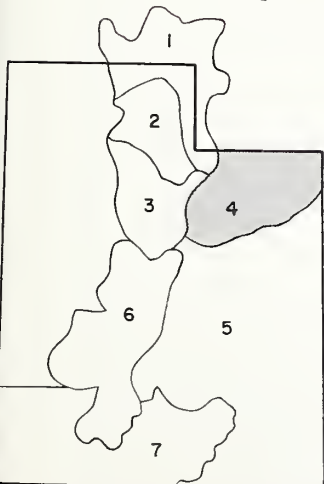
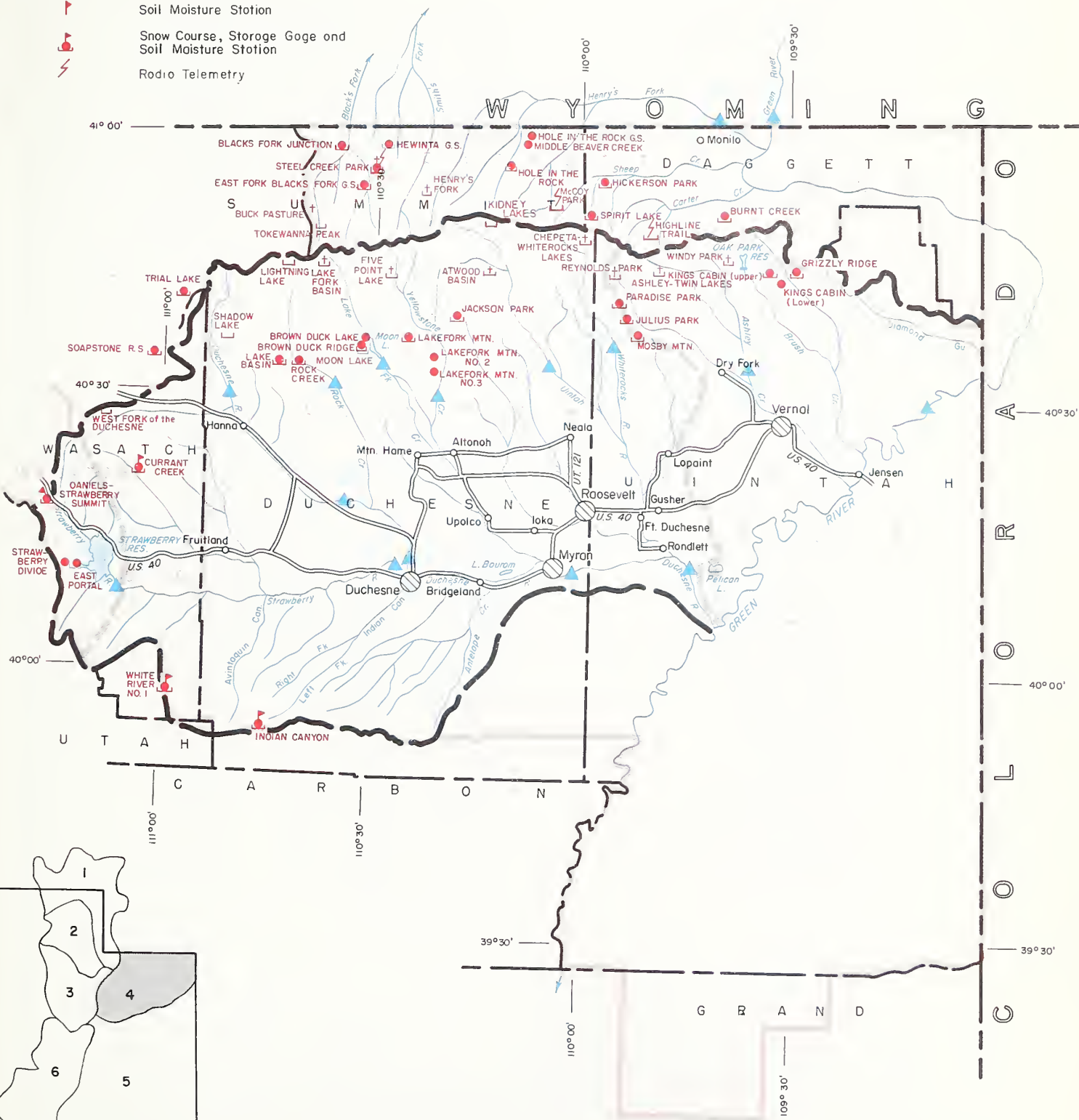
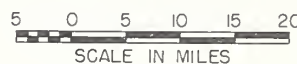
PRECIPITATION (Inches)

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. OCT. 1 TO DATE		
		Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
<u>UTAH LAKE</u>							
Clear Creek Ridge #2	8000	1/27	--	2.62b	9.75	8.97*	109
Daniels-Strawberry Smt.	8000	1/29	3.01	2.90b	11.29	10.95b	103
East Portal	7800	1/30	4.00	3.37	11.80	10.41*	113
Payson R. S.	8050	1/30	3.30	3.84b	13.50	10.01b	135
Soapstone R.S.	7800	1/30	4.68	2.71b	12.20	9.42*	130
Timpanogos Divide	8200	1/28	3.40	3.94	10.55	15.95	66
Trial Lake	9800	1/30	6.16	4.47b	16.35	12.89*	127
<u>JORDAN RIVER & TOOELE VALLEY</u>							
Lambs Canyon #2	7400	1/30	4.90	--	--	--	--
Middle Canyon	7000	1/30	2.36	3.32b	9.76	9.55*	102
Mt. Dell Dam	5500	1/31	3.71	2.02	10.86	7.50	145
Parley's Canyon Smt.	7500	1/30	6.02	3.94*	16.16	11.64*	139
Silver Lake (Brighton)	8725	1/31	7.05	5.09	17.97	16.56	108
FOOTNOTES - See last page							

LEGEND

- Watershed Boundary
- Sub-watershed Boundary
- Soil Conservation District Bdry
- County Boundary
- ▲ Forecast Point
- Snow Course
- ┌ S.C.S. Storage Gage
- └ W.B. Storage Gage
- † Aerial Snow Depth Gage
- Snow Course and Aerial Snow Depth Gage
- ⚡ Soil Moisture Station
- Snow Course, Storage Gage and Soil Moisture Station
- ⚡ Radio Telemetry

UINTAH BASIN & DAGGETT S. C. D's.



WATERSHED LOCATION

INDEX

NO.	STATE	NAME	SEC.	TWP.	RGE	ELEV.
UPPER GREEN RIVER IN UTAH (above Duchesne River)						
9J11a	U	Ashley Twin Lakes	20	1S	19E	10,500
10J21P	U	Black's Fork G.S.-East Fork	25	2N	12E	9,300
10J22P	U	Black's Fork Junction	33	3N	12E	8,925
10J23a	U	Buck Pasture	14	1N	11E	9,700
10J24ap	U	Henry's Fork	29	2N	14E	10,000
10J4P	U	Hewinta G.S.	33	3N	13E	9,500
9J8P	U	Hickerson Park	24	2N	17E	9,100
9J15p	U	Highline Trail	23	1N	19E	10,250
10J1	U	Hole-in-the-Rock	13	2N	15E	9,150
10J3	U	Hole-in-the-Rock G.S.	32	3N	16E	8,300
9J2	U	King's Cabin (lower)	23 & 26	1S	21E	8,600
9J1P	U	King's Cabin (upper)	22	1S	21E	8,730
10J37p	U	McCoy Park	6	1N	17E	10,680
10J2	U	Middle Beaver Creek	31	3N	16E	8,550
9J10a	U	Reynolds Park	9	1S	18E	10,400
9J7P	U	Spirit Lake	10	1N	17E	10,300
10J20A	U	Steel Creek Park	17	2N	13E	9,900
9J12a	U	Windy Park	1	1S	20E	9,400
DUCHESNE RIVER						
10J27a	U	Atwood Basin	21	1S	15E	10,250
10J9	U	Brown Duck Lake	2	2N	6W	10,300
9J14P	U	Burnt Creek	4	1N	20E	7,900
9J9a	U	Chepeta-Whiterocks Lakes	3	1S	17E	10,300
11J32MP	U	Currant Creek	31	1S	10W	7,800
11J23MP	U	Daniels-Strawberry Summit x	20	2S	12W	8,000
11J7P	U	East Portal x	36	7S	6E	7,560
10J26a	U	Five Point Lake	28	4N	5W	11,000
9J13P	U	Grizzley Ridge	8	1S	22E	8,500
10K1P	U	Indian Canyon	2	11S	10E	9,100
10J19	U	Jackson Park	23	3N	4W	11,300
9J6P	U	Julius Park	20	3N	1E	9,800
10J38P	U	Lake Basin	23	3S	8W	10,800
10J25a	U	Lakefork Basin	13	4N	7W	11,100
10J10P	U	Lakefork Mountain	2 & 3	2N	5W	10,200
10J11	U	Lakefork Mountain #2	17	2N	4W	8,900
10J12	U	Lakefork Mountain #3	29	2N	4W	8,100
10J29p	U	Lightning Lake	24	4N	8W	10,950
9J5	U	Mosby Mountain	27	2S	18E	9,500
9J3P	U	Paradise Park	7	3N	1E	10,100
10J18P	U	Rock Creek	21	2N	7W	7,900
10J32p	U	Shadow Lake	28	3N	8W	10,150
10J25P	U	Soapstone R.S. x	9	3S	8E	7,800
11J8	U	Strawberry Divide x	34 & 35	7S	6E	8,000
10J8P	U	Trial Lake x	5	2S	9E	9,800
11J35P	U	West Fork of the Duchesne	22	1N	19E	10,250
10K2MP	U	White River #1 x	11	10S	8E	8,550

LEGEND

Numbering system (example)

10J7	SNOW COURSE ONLY
10J7P	SNOW COURSE AND PRECIPITATION GAGE
10J7M	SNOW COURSE AND SOIL MOISTURE STATION
10J7A	SNOW COURSE AND AERIAL MARKER
10J7MA	SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER
10J7MP	SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE
10J7m	SOIL MOISTURE STATION ONLY
10J7a	AERIAL MARKER ONLY
10J7p	STORAGE PRECIPITATION GAGE ONLY
x	ADJACENT DRAINAGE

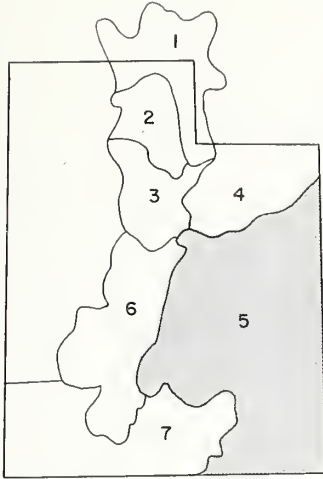
UINTAH BASIN & DAGGETT SCD'S

SNOW

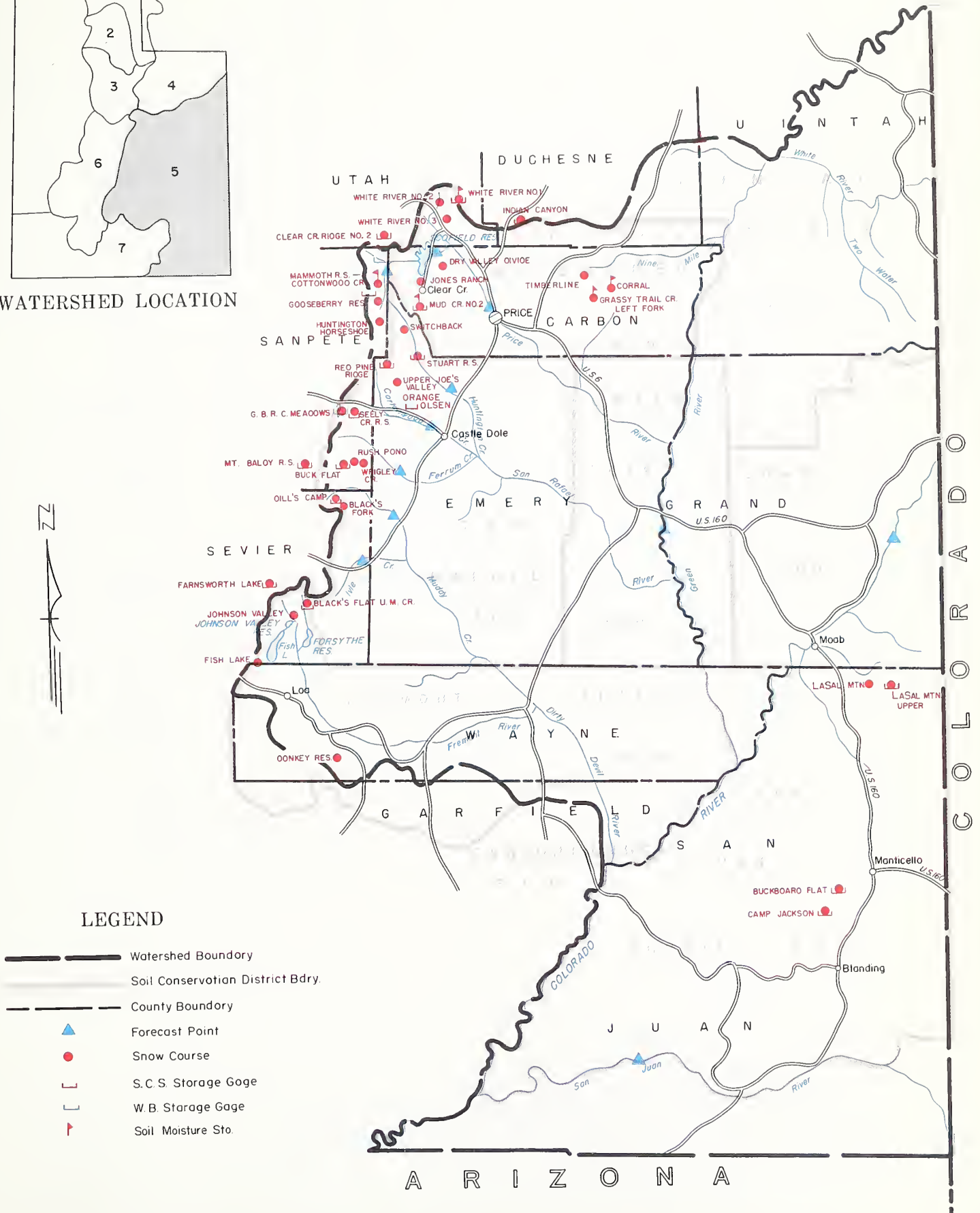
DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
					Last Year	Average †
<u>UINTAH BASIN SCD</u>						
Daniels-Strawberry Smt. x	8000	1/29	29	6.9	17.6	8.9
East Portal x	7560	1/30	27	7.3	13.0	6.1
Indian Canyon	9100	1/28	27	5.6	11.0	7.3
Julius Park	9800	1/30	28	7.0	11.8	7.4b
Lakefork Mountain	10200	1/29	27	5.9	10.2	6.8
Lakefork Mountain #2	8900	1/29	14	2.5	7.6	5.0
Lakefork Mountain #3	8100	1/29	12	2.1	7.4	4.2
Mosby Mountain	9500	1/30	21	4.6	9.5	6.4b
Paradise Park	10100	1/30	23	5.8	11.2	7.8b
Soapstone R.S. x	7800	1/30	39	8.8	11.4	7.7b
Strawberry Divide x	8000	1/30	51	13.6	19.0	10.6
Trial Lake x	9800	1/30	65	16.0	23.5	14.8b
<u>UINTAH BASIN - Aerial Markers</u>						
Ashley Twin Lakes A	10500	}	Flights delayed			- -
Atwood Basin A	10250					- -
Buck Pasture A	9700					- -
Chepeta-Whiterocks Lakes	10300					- -
Five Point Lake A	11000					- -
Henry's Fork A	10000					- -
Lakefork Basin A	11100					- -
Reynolds Park A	10400					- -
Windy Park A	9400					- -
Steel Creek Park A	9900					- -
FOOTNOTES - See last page						

CARBON, EMERY, WAYNE, GRAND AND SAN JUAN COUNTIES

10 0 10 20 30 40
SCALE IN MILES



WATERSHED LOCATION



INDEX

NO.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
PRICE RIVER						
10K5M	U	Corral	32	13S	14E	8,200
11K8	U	Dry Valley Divide	20	12S	8E	7,800
11K4P	U	Gooseberry Reservoir	25	13S	5E	8,700
10K3M	U	Grassy Trail Creek-Left Fork	2	14S	13E	7,970
11K5	U	Huntington-Horseshoe	12	14S	5E	9,800
10K1P	U	Indian Canyon x	2	11S	10E	9,100
11K7	U	Jones Ranch	32	12S	7E	7,600
11K3MP	U	Mammoth R.S. - Cottonwood Creek x	13	13S	5E	8,800
11K33MP	U	Mud Creek	4	14S	7E	8,300
10K6	U	Timberline	28	13S	13E	9,100
10K2MP	U	White River #1	11	10S	8E	8,550
11K24	U	White River #2	9	10S	8E	7,600
11K25	U	White River #3	30	10S	8E	7,400
SAN RAFAEL RIVER						
11K31P	U	Buck Flat	23	19S	4E	9,400
11K4P	U	Gooseberry Reservoir x	25	13S	5E	8,700
11K5	U	Huntington-Horseshoe x	12	14S	5E	9,800
11K28P	U	Red Pine Ridge	5	16S	6E	9,400
11K38	U	Rush Pond	24	19S	4E	9,800
11K9	U	Seeley Creek R.S.	25	17S	4E	10,000
11K27P	U	Stuart R.S.	8 & 9	15S	7E	7,950
11K26	U	Switchback	14	14S	6E	8,600
11K29	U	Upper Joe's Valley	21	16S	6E	8,900
11K32	U	Wrigley Creek	27	19S	5E	9,000
MUDDY RIVER						
11K14	U	Black's Fork	34	20S	4E	9,200
11K15	U	Dill's Camp	27	20S	4E	9,200
FREMONT RIVER						
11L4P	U	Black's Flat-U.M. Creek	33	24S	3E	9,250
11L5	U	Donkey Reservoir	9	30S	4E	9,800
11L3	U	Fish Lake	35	26S	1E	8,700
11L6	U	Johnson Valley	24	25S	2E	8,850
SOUTHEASTERN UTAH DRAINAGES						
9M1P	U	Buckboard Flat	36	33S	22E	9,000
9M2P	U	Camp Jackson	22	34S	22E	8,600
9L1	U	LaSal Mountain	5	27S	24E	8,800
9L2P	U	LaSal Mountain (upper)	3	27S	24E	9,400

LEGEND

Numbering system (example)

10J7	SNOW COURSE ONLY
10J7P	SNOW COURSE AND PRECIPITATION GAGE
10J7M	SNOW COURSE AND SOIL MOISTURE STATION
10J7A	SNOW COURSE AND AERIAL MARKER
10J7MA	SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER
10J7MP	SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE
10J7m	SOIL MOISTURE STATION ONLY
10J7a	AERIAL MARKER ONLY
10J7p	STORAGE PRECIPITATION GAGE ONLY
x	ADJACENT DRAINAGE

CARBON, EMERY, WAYNE, GRAND & SAN JUAN COUNTIES

SNOW

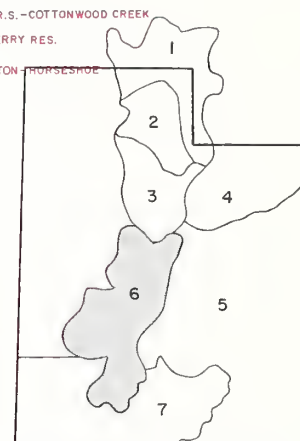
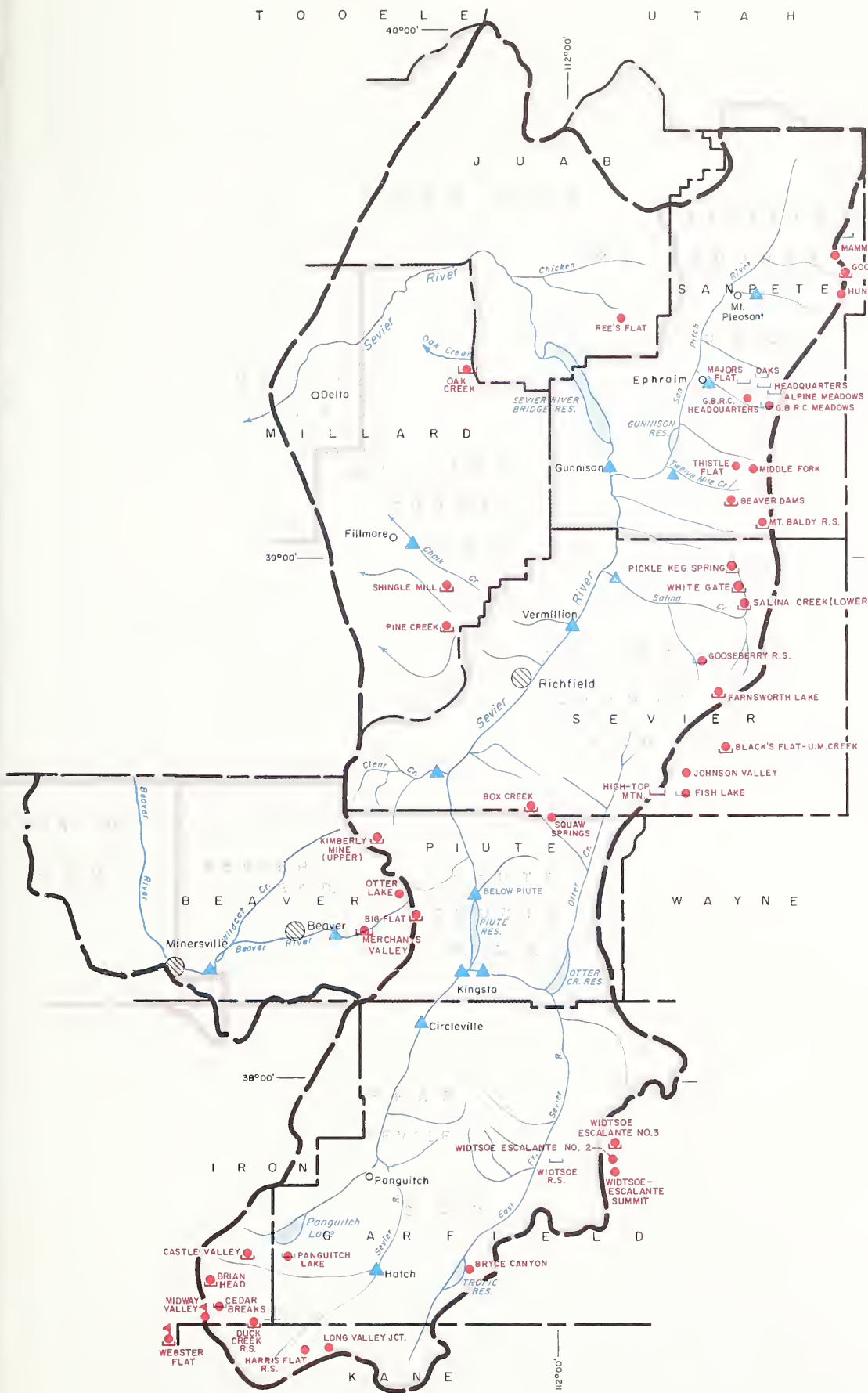
DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
					Last Year	Average †
<u>PRICE RIVER</u>						
Clear Creek Ridge #2 x	8000	1/27	32	8.0	13.3	7.9b
Dry Valley Divide	7800	1/30	27	6.0	11.4	6.0
Gooseberry Reservoir	8700	1/28	44	12.8	21.3	10.2
Indian Canyon	9100	1/28	27	5.6	11.0	7.3
Jones Ranch	7600	1/30	16	3.4	9.8	3.9
Mammoth R.S.-Ctnwd. Crk.	8800	1/28	48	13.7	21.3	11.0b
Mud Creek #2	8300	1/30	41	9.8	14.9	7.1*
<u>SAN RAFAEL RIVER</u>						
Buck Flat	9400		Survey Delayed		13.2	8.9b
G.B.R.C. Meadows x	10000	1/31	57	17.0	17.9	13.2b
Gooseberry Reservoir x	8700	1/28	44	12.8	21.3	10.2
Red Pine Ridge	9400		Survey Delayed		16.0	9.6b
Rush Pond	9800		Survey Delayed		11.7	8.2b
Upper Joe's Valley	8900		Survey Delayed		10.2	5.4b
Wrigley Creek	9000	1/30	30	6.4	9.7	6.4b
<u>FREMONT RIVER</u>						
Farnsworth Lake x	9900	1/31	51	15.7	11.5	9.4b

FOOTNOTES - See last page

WOLF D-8 / A-1

FOOTNOTES - See last page

SEVIER RIVER BASIN including BEAVER RIVER



WATERSHED LOCATION

LEGEND

- Watershed Boundary
- Soil Conservation District Bdry.
- County Boundary
- Forecast Point
- Snow Course
- Soil Moisture Station
- S.C.S. Storage Gage
- W.B. Storage Gage



INDEX

NO.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
UPPER SEVIER RIVER (South of Richfield, Utah)						
12L7P	U	Big Flat x	18	29S	4W	10,290
12L4P	U	Box Creek	33	26S	2W	9,800
12M8	U	Bryce Canyon	36	36S	4W	8,000
12M13P	U	Castle Valley	23	36S	8W	9,700
12M1P	U	Cedar Breaks	2	37S	9W	10,390
12M4P	U	Duck Creek R.S.	11	38S	8W	8,700
11L3	U	Fish Lake x	35	26S	1E	8,700
12M5	U	Harris Flat	24	38S	7W	7,700
11L9	U	High-Top Mountain.	36	25S	1E	11,400
12L6P	U	Kimberly Mine	11	27S	5W	9,300
12M6	U	Long Valley Junction x	22	38S	6W	7,500
12M2M	U	Midway Valley	26	37S	9W	9,800
12M7P	U	Panguitch Lake	4 & 5	36S	7W	8,200
12L5	U	Squaw Springs	3	27S	2W	9,300
11M1	U	Widtsoe-Escalante Summit x	22	34S	1W	9,500
11M2	U	Widtsoe-Escalante #2 x	22	34S	1W	9,500
11M3P	U	Widtsoe-Escalante #3 x	22	34S	1W	9,500
11M4P	U	Widtsoe R.S.	22	34S	2W	7,600
LOWER SEVIER RIVER (Including San Pitch River)						
11K13P	U	Beaver Dams	27	19S	3E	8,000
11L1P	U	Farnsworth Lake	27 & 33	23S	2E	9,900
11K11P	U	G.B.R.C. Headquarters	21	17S	4E	8,700
11K10	U	G.B.R.C. Meadows	26 & 27	17S	4E	10,000
11L2	U	Gooseberry R.S.	22	23S	2E	8,400
11K4P	U	Gooseberry Reservoir x	25	13S	5E	8,700
11K5	U	Huntington-Horseshoe x	12	14S	5E	9,800
11K3MP	U	Mammoth R.S.-Cottonwood Creek	13	13S	5E	8,800
11K34	U	Middle Fork	16	18S	4E	9,600
11K12P	U	Mt. Baldy R.S.	19	19S	4E	9,500
11K2P	U	Oak Creek	9	17S	3W	7,760
11K39	U	Pickle Keg Springs	4	21S	3E	9,600
12L1P	U	Pine Creek	24	22S	4W	8,700
11K36	U	Rees's Flat	20	15S	2E	7,300
11L8	U	Salina Creek (lower)	12	22S	3E	7,250
12L11P	U	Shingle Mill	5	22S	3W	6,200
11K35	U	Thistle Flat	23	18S	3E	8,500
11L7	U	White Gate	16	21S	3E	9,350
BEAVER RIVER						
12L7P	U	Big Flat	18	29S	4W	10,290
12L9P	U	Merchant's Valley	8 & 9	29S	5W	8,200
12L8	U	Otter Lake	1	29S	5W	9,300

LEGEND

Numbering system (example)

10J7	SNOW COURSE ONLY
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10J7M	SNOW COURSE AND SOIL MOISTURE STATION
10J7A	SNOW COURSE AND AERIAL MARKER
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10J7MP	SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE
10J7m	SOIL MOISTURE STATION ONLY
10J7a	AERIAL MARKER ONLY
10J7p	STORAGE PRECIPITATION GAGE ONLY
x	ADJACENT DRAINAGE

SEVIER RIVER BASIN INCLUDING BEAVER RIVER

SNOW

SNOW		THIS YEAR			PAST RECORD	
DRAINAGE BASIN and/or SNOW COURSE		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average †
UPPER SEVIER RIVER (South of Richfield, Utah)						
Big Flat x	10290	1/28	45	12.5	15.5	9.6b
Bryce Canyon	8000	1/29	1	0.2	3.8	2.6
Duck Creek R.S.	8700	1/28	9	2.3	18.9	7.6b
Harris Flat R.S.	7700	1/28	1	0.1	12.8	4.7b
Kimberly Mine	9300	1/27	33	10.2	12.2	8.7b
Long Valley Jct. x	7500	1/28	0	0.0	9.4	2.2b
Midway Valley	9800	1/29	23	6.0	22.1	12.2b
Widtsoe-Escalante Smt.	9500	1/30	7	1.5	5.0	4.0
Widtsoe-Escalante #2	9500	1/30	15	3.2	6.0	5.2
Widtsoe-Escalante #3	9500	1/30	21	4.8	7.0	6.0b
LOWER SEVIER RIVER (Including San Pitch River)						
Farnsworth Lake	9900	1/31	51	15.7	11.5	9.4b
G.B.R.C. Headquarters	8700	1/31	38	10.6	12.5	8.3b
G.B.R.C. Meadows	10000	1/31	57	17.0	17.9	13.2b
Gooseberry R.S.	8400	1/31	32	8.8	8.2	6.2b
Gooseberry Reservoir x	8700	1/28	44	12.8	21.3	10.2
Mammoth R.S.-Ctnwood Crk.	8800	1/28	48	13.7	21.3	11.0b
Shingle Mill	6200	1/27	15	5.4	4.4	3.9b
BEAVER RIVER						
Big Flat	10290	1/28	45	12.5	15.5	9.6b
Merchant Valley	8200	1/28	23	5.1	9.3	4.9
Otter Lake	9300	1/28	40	10.4	12.8	7.5b
FOOTNOTES - See last page						

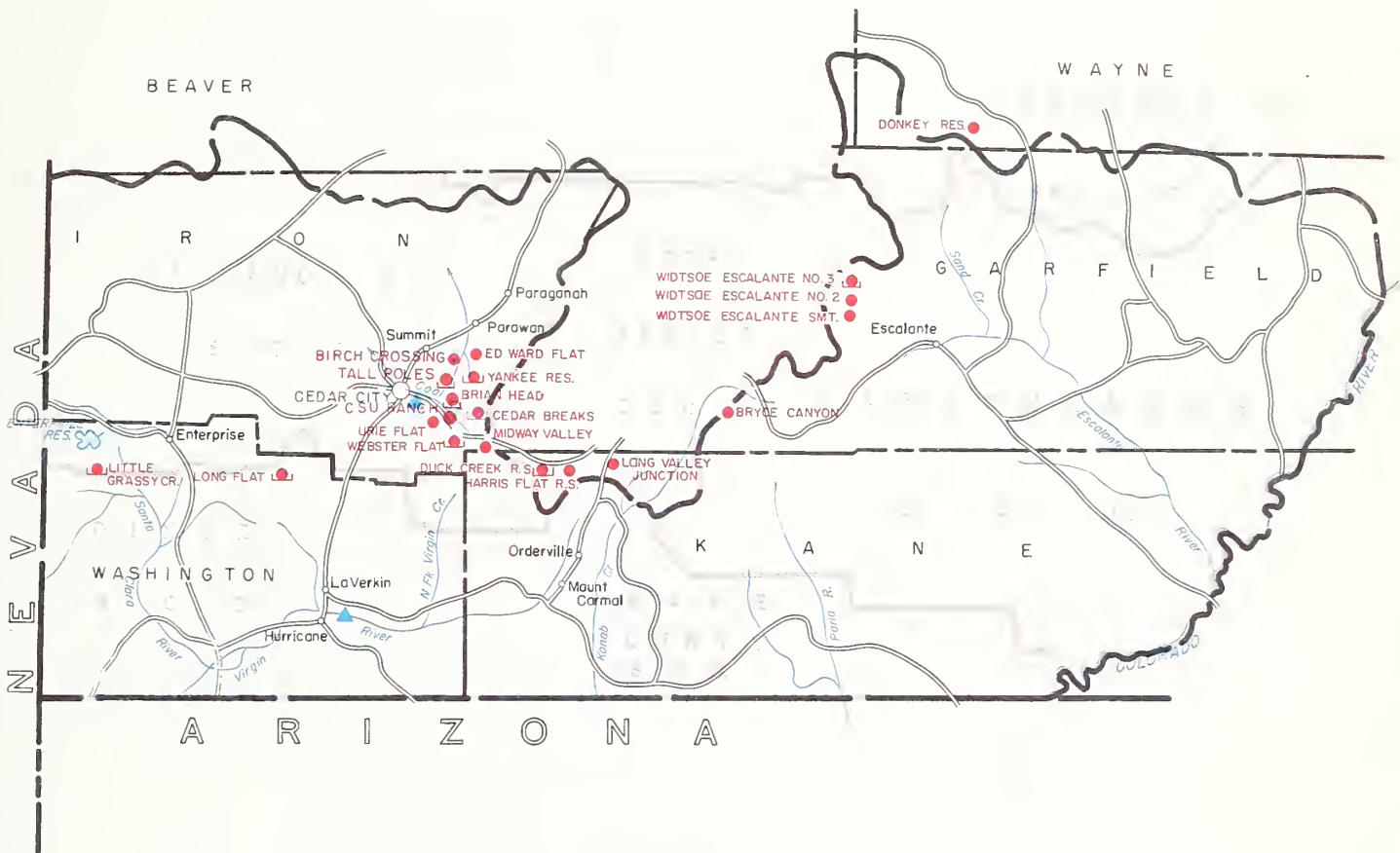
PRECIPITATION (Inches)

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. OCT. 1 TO DATE		
		Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
<u>SEVIER RIVER</u>							
Big Flat x	10290	1/28	--	3.63b	11.54	8.23*	140
Duck Creek R.S.	8560	1/28	0.80	3.27b	4.85	10.18*	48
Farnsworth Lake	9900	1/31	3.48	3.75b	16.02	9.77b	164
G.B.R.C. Headquarters	8700	1/31	2.75	3.66	12.75	10.11	126
G.B.R.C. Meadows	10000	1/31	4.23	4.37	16.60	12.04	138
G.B.R.C. Oaks	7655	1/31	1.86	2.61	8.79	6.91	127
Gooseberry R.S.	7800	1/31	2.66	2.87b	10.74	6.69*	160
Gooseberry Reservoir x	8700	1/28	3.96	3.39b	13.26	10.44*	127
Kimberly Mine	9100	1/27	2.25	3.24*	11.09	9.84*	113
Mammoth R.S. #2 x	8600	1/28	4.55	3.05b	14.33	11.35*	126
Shingle Mill	6200	1/27	1.70	2.98*	9.62	7.60*	127
Webster Flat x	9200	1/29	1.62	3.53*	5.96	11.29*	53
Widtsoe-Escalante #3	9500	1/30	0.87	2.30b	6.98	7.65b	91
Widtsoe R.S.	7600	1/30	0.20	0.68	2.28	3.10	74
 <u>BEAVER RIVER</u>							
Beaver Canyon P.H.	7275	1/31	1.29	- -	--	- -	--
Merchant Valley	8650	1/28	4.09	- -	9.29	- -	--
 <							

EAST GARFIELD, KANE, WASHINGTON AND IRON COUNTIES

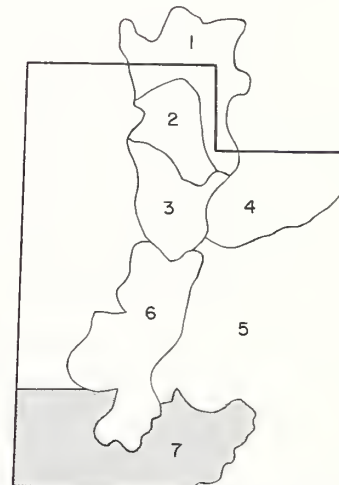


10 0 10 20 30 40
SCALE IN MILES



LEGEND

- Watershed Boundary
- Soil Conservation District Bdry.
- County Boundary
- Forecast Point
- Snow Course
- Aerial Snow Depth Gage
- S.C.S. Storage Gage
- W.B. Storage Gage



WATERSHED LOCATION

INDEX

NO.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
PARIA RIVER						
12M8	U	Bryce Canyon x	36	36S	4W	8,000
PAROWAN CREEK						
12M16	U	Birch Crossing	23	35S	9W	8,100
12M14	U	Brian Head	10	36S	9W	10,000
12M12	U	Ed Ward Flat	17	35S	8W	8,300
12M15	U	Tall Poles	26 & 35	35S	9W	8,800
12M11P	U	Yankee Reservoir	20	35S	8W	8,700
COAL CREEK						
12M1P	U	Cedar Breaks x	2	37S	9W	10,390
12M17	U	CSU Ranch	18	37S	9W	8,200
12M2M	U	Midway Valley x	26	37S	9W	9,800
12M10	U	Urie Flat	11	37S	10W	8,450
12M3MP	U	Webster Flat x	20	37S	9W	9,200
ENTERPRISE TO NEW HARMONY DRAINAGES						
13M4MP	U	Little Grassy Creek	15	38S	17W	6,100
13M2MP	U	Long Flat	2	38S	14W	8,000
ESCALANTE RIVER						
11M1	U	Widtsoe-Escalante Summit	22	34S	1W	9,500
11M2	U	Widtsoe-Escalante #2	22	34S	1W	9,500
11M3P	U	Widtsoe-Escalante #3	22	34S	1W	9,500
VIRGIN RIVER						
12M1P	U	Cedar Breaks x	2	37S	9W	10,390
12M4P	U	Duck Creek R.S. x	11	38S	8W	8,700
12M5	U	Harris Flat x	24	38S	7W	7,700
12M6	U	Long Valley Junction	22	38S	6W	7,500
12M2M	U	Midway Valley x	26	37S	9W	9,800
12M3MP	U	Webster Flat	20	37S	9W	9,200

LEGEND

Numbering system (example)

10J7	SNOW COURSE ONLY
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10J7a	AERIAL MARKER ONLY
10J7p	STORAGE PRECIPITATION GAGE ONLY
x	ADJACENT DRAINAGE

EAST GARFIELD, KANE, WASHINGTON & IRON CO.

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
					Last Year	Average †
<u>ESCALANTE RIVER</u>						
Widtsoe-Escalante Smt.	9500	1/30	7	1.5	5.0	4.0
Widtsoe-Escalante #2	9500	1/30	15	3.2	6.0	5.2
Widtsoe-Escalante #3	9500	1/30	21	4.8	7.0	6.0b
<u>PARIA RIVER</u>						
Bryce Canyon x	8000	1/29	1	0.2	3.8	2.6
<u>VIRGIN RIVER & COAL CREEK</u>						
CSU Ranch	8200	1/29	3	1.1	12.1	- -
Duck Creek R.S. x	8700	1/28	9	2.3	18.9	7.6b
Harris Flat x	7700	1/28	1	0.1	12.8	4.7b
Long Valley Junction	7500	1/28	0	0.0	9.4	2.2b
Midway Valley x	9800	1/29	23	6.0	22.1	12.2b
Urie Flat	8450	1/29	9	2.8	10.3	4.1b
Webster Flat	9200	1/29	18	4.8	19.6	8.9
<u>PAROWAN CREEK</u>						
Birch Crossing	8100	1/29	13	3.6	5.8	- -
Brian Head	10000	1/29	39	10.1	16.2	- -
Tall Poles	8800	1/29	27	6.2	10.3	---
FOOTNOTES - See last page						

PRECIPITATION (Inches)

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. OCT. 1 TO DATE		
		Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
<u>ESCALANTE RIVER</u>							
Widtsoe-Escalante	9500	1/30	0.87	2.30b	6.98	7.65b	91
<u>VIRGIN RIVER</u>							
Duck Creek R.S.	8560	1/28	0.80	3.27b	4.85	10.18*	48
Webster Flat	9200	1/29	1.62	3.53*	5.96	11.29*	53
<u>COAL CREEK</u>							
Webster Flat x	9200	1/29	1.62	3.53*	5.96	11.29*	53
<u>PAROWAN CREEK</u>							
Tall Poles	8800	1/29	1.62	- -	7.39	- -	--
FOOTNOTES - See last page							

FOOTNOTES

- (1) Data supplied by U. S. Forest Service
- (2) Data supplied by U. S. Weather Bureau
- (3) Data supplied by U. S. Geological Survey

- (a) 1953-67 - 15-year average period
- (b) Average of all past record - less than 15 years
- (c) Taken at Compromise point

- (A) Aerial observation - water content estimated
- (x) Adjacent drainage
- * Partly estimated

The following footnotes apply only to Streamflow Forecast pages.

- (1) Includes UP&L Co. tailrace and Logan, Hyde Park & Smithfield Canal.
- (2) Observed flow plus change in storage in East Canyon Reservoir.
- (3) Inflow record as computed by U. S. Bureau of Reclamation.
- (4) Observed flow Weber River near Wanship, Utah, plus change in storage in Rockport Reservoir, plus diversion by Weber-Provo Canal.
- (5) Includes diversion by Weber-Provo Canal and change in storage in Rockport Reservoir.
- (6) Observed flow minus diversions thru Duchesne tunnel and Weber-Provo Canal.
- (7) Observed flow plus change in storage in Deer Creek Reservoir, minus diversions thru Duchesne tunnel & Weber-Provo Canal.
- (8) Change in storage plus diversion thru Strawberry tunnel.
- (9) Observed flow plus change in storage in Otter Creek Reservoir.
- (10) Gage is below diversions near Salina.
- (11) Observed flow plus change in storage in Otter Crk & Piute Reservoirs.
- (12) Observed flow at Rockyford Dam, corrected for change in storage in Minersville Reservoir.
- (13) Observed flow plus diversion through Duchesne Tunnel.
- (14) Observed flow plus change in storage in Moon Lake Reservoir.
- (15) Observed flow plus change in storage reservoir.
- (16) Corrections made for Strawberry, Moon Lake, Starvation Reservoir, Strawberry and Duchesne Tunnels.

- (a) Runoff forecasts are based principally on mountain snow cover and on the assumption that precipitation and temperature will be near average from the present time to the end of the forecast period. Appreciable deviations from normal of temperature and/or precipitation will correspondingly modify these forecasts. The discharge data is taken from preliminary records of the U. S. Geological Survey.

Agencies Cooperating in Utah Snow Surveys

U.S. GOVERNMENT AGENCIES

U.S. Department of Agriculture
Soil Conservation Service
Forest Service
U.S. Department of Commerce
Weather Bureau
U.S. Department of Interior
Bureau of Reclamation
Geological Survey
National Park Service

STATE AGENCIES

Utah State University
Utah Fish and Game Department
Utah State Department of Natural
Resources, Division of Water Rights
Bear River Commissioner
Price River Commissioner
Provo River Commissioner
Sevier River Commissioners
Spanish Fork River Commissioner
Utah Lake and Jordan River Commissioner

MUNICIPALITIES

Manti
Salt Lake City

ORGANIZED PUBLIC AGENCIES

Beaver River Water Users Association
Board of Canal Presidents - Jordan River
Emery Canal and Reservoir Company
Moon Lake Water Users Association
Ogden River Water Users Association
Provo River Water Users Association
Strawberry Water Users Association
Sevier River Water Users Association

PRIVATE AGENCIES

Kaiser Steel Corporation

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